Amendments to the Claims:

This listing of claims will replace all prior versions and listings of the claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method of measuring a performance of a route in an internetwork, the route coupling an internetwork server to a terminal on the internetwork, the method comprising:

at a frequently trafficked portal on the internetwork, detecting a request for a web page from the terminal, wherein the web page is at least partially stored at the frequently trafficked portal;

in response to the request for the web page, downloading the web page to the terminal via the internetwork;

from the web page, retrieving a Uniform Resource Locator (URL) for a web object referenced in the web page;

resolving the URL to the internetwork server;

detecting a request for the web object from the terminal at the internetwork server;

in response to the request for the web object, sending the web object from the internetwork server to the terminal; and

concurrent with sending the web object, measuring a Round Trip Time (RTT) ~~of one or more~~ from the transmission and reception of corresponding transport protocol packets sent between the internetwork server and the terminal.

Claim 2 (original): The method of claim 1, wherein the web page is at least partially encoded in a markup language.

Claim 3 (original): The method of claim 2, wherein the markup language is Hyper Text Markup Language.

Claim 4 (original): The method of claim 3, wherein the sending the web object from the internetwork server to the terminal is performed via a Hyper Text Transfer Protocol (HTTP).

Claim 5 (original): The method of claim 4, wherein the Hyper Text Transfer Protocol is HTTP v 1.0.

Claim 6 (original): The method of claim 4, wherein the Hyper Text Transfer Protocol is HTTP v 1.1.

Claim 7 (original): The method of claim 1, wherein the web object is visually imperceptible.

Claim 8 (original): The method of claim 1, wherein the web object comprises a single pixel.

Claim 9 (withdrawn): A method of measuring performance in a network, the method comprising:

between a first point in the network and a second point in the network, wherein the first point is identified by a first address and the second point is identified by a second address, generating one or more pairs of packets, each of the one or more pairs of packets including:

a packet sent from the first point to the second point; and

a packet received at the first point from the second point, wherein the received packet comprises a response to the sent packet;

measuring a plurality of durations between the sent packets and the received packets for the one or more pairs; and

calculating, at least from the plurality of durations, parameters of at least part of the network, wherein the parameters comprise per-group delay, jitter, and loss.

Claim 10 (withdrawn): The method of claim 9, wherein the pairs of packets comprise messages in Transmission Control Protocol (TCP) format.

Claim 11 (withdrawn): The method of claim 10, wherein one or more of the sent packets is a SYN/ACK packet.

Claim 12 (withdrawn): The method of claim 10, wherein one or more of the received packets is an ACK packet.

Claim 13 (withdrawn): The method of claim 9, wherein the network is an internetwork.

Claim 14 (currently amended): A system for measuring performance of an internetwork, the system comprising:

a frequently trafficked web portal in the internetwork;

a web page for downloading upon request and at least partially stored on the frequently trafficked web portal, the at least partially stored web page including a Uniform Resource Locator (URL) for a web object, such that the web object is not stored on the frequently trafficked web portal;

a Domain Name System (DNS) server on the internetwork, the DNS server including a reference which maps the URL for the web object to an Internet Protocol address for an internetwork server on the internetwork;

a web browser coupled to the internetwork, wherein the web browser sends a download request for the web object to the internetwork server; and

a measurement process executed on the internetwork server, such that in response to the download request, the measurement process measures one or more Round Trip Times from the transmission and reception of corresponding transport protocol packets sent between the internetwork server and the web browser.

Claim 15 (original): The system of claim 14, wherein the web page is at least partially encoded in a markup language.

Claim 16 (original): The system of claim 14, wherein the markup language is Hyper Text Markup Language (HTML).

Claim 17 (currently amended): A method of measuring a performance of a route in an internetwork, the route coupling an internetwork server to a terminal on the internetwork, the method comprising:

at a frequently trafficked portal on the internetwork, detecting a request for a web page from the terminal, wherein the web page is at least partially stored at the frequently trafficked portal;

from the web page, retrieving a Uniform Resource Locator (URL) for a web object referenced in the web page;

resolving the URL to the internetwork server;

detecting a request for the web object from the terminal at the internetwork server; and

in response to the request for the web object, measuring a Round Trip Time (RTT) ~~of one or more~~ from the transmission and reception of corresponding transport protocol packets sent between the internetwork server and the terminal.

Claim 18 (withdrawn): The method of claim 9, wherein the per-group delay, jitter, and loss are each weighted averages of delay, jitter, and loss, respectively.

Claim 19 (withdrawn): The method of claim 18, wherein values used to determine the weighted averages are related to a type of application used to send and receive packets between the first point and the second point.

Claim 20 (withdrawn): The method of claim 19, wherein the type of a application is an application selected from the group consisting of HTTP 1.0, HTTP 1.1, Voice over IP, and Video Streaming over IP.